AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Currently Amended) A trimeric unsymmetrical polyurethane polyol comprising the reaction product of:
 - a) a diisocyanate;
 - b) an aliphatic diol having 1-6 carbon atoms; and
- c) a polymeric diol having at least one oxycarbonyl linkage and having from 5-20 carbon atoms,

wherein the polyurethane polyol includes hydroxyl termination.

2. (Original) A polyurethane polyol as in claim 1, wherein the selected diisocyanate is from the group consisting of 2,2,4trimethylhexamethylene diisocyanate, 1,6-hexamethylene diisocyanate, 1,1'-4,4'-methylene-bis-(cyclohexyl methylene-bis-(4-isocyanatocyclohexane), diisocyanate), hydrogenated toluene diisocyanate, 4,4'-isopropylidene-bis-(cyclohexyl isocyanate), 1,4-cyclohexyl 4,4'diisocyanate,

dicyclohexyldiisocyanate, and 3-isocyanato methyl-3,5,5-trimethylcyclohexyl diisocyanate, and mixtures and combinations thereof.

- 3. (Original) A polyurethane polyol as in claim 1, wherein the diisocyanate is aliphatic.
- 4. (Original) A polyurethane polyol as in claim 1, wherein the aliphatic diol is selected from the group consisting of 1,2-propanediol, ethyl-1,3-hexanediol, 1,6-hexanediol, 2-methyl propanediol, and 1,5-pentanediol, and mixtures and combinations thereof.
- 5. (Original) A polyurethane polyol as in claim 1, wherein the aliphatic diol includes an odd number of carbon atoms.
- 6. (Original) A polyurethane polyol as in claim 1, wherein the polymeric diol is selected from the group consisting of polycarbonate diols and polycaprolactone diols, and mixtures thereof.
- 7. (Original) A polyurethane polyol as in claim 1, wherein the diisocyanate is 2,2,4-trimethylhexamethylene diisocyanate, wherein the aliphatic diol is 1,5-pentanediol, and wherein the polymeric diol is polyoxohexylene carbonate diol.

- 8. (Original) A polyurethane polyol as in claim 1, wherein the ratio of the diisocyanate:aliphatic diol:polymeric diol is from about 1:1.9:0.1 to about 1:1.1:0.9
- 9. (Original) A polyurethane polyol as in claim 1, wherein the reaction product comprises a low viscosity, non-crystalline substantially 100 percent solids material.
- 10. (Currently Amended) A coating composition comprising the reaction product of:
- a) a <u>hydroxy-terminated</u> polyurethane polyol precursor comprising the reaction product of:
 - i) a diisocyanate;
 - ii) an aliphatic diol having 1-6 carbon atoms; and
 - iii) a polymeric diol having at least one oxycarbonyl linkage and having from 5-20 carbon atoms; and
 - b) a polyisocyanate.
- 11. (Currently Amended) A coating composition as in claim 10, wherein the polyisocyanate is selected from the group consisting of 2,4,6-trioxo-1,3,5-tris(6-isocyanatohexyl)hexahydro-1,3,5-triazine, N-isocyanatohexylaminocarbonyl-N,N'-bis(isocyanatohexyl)urea, the biuret of

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hexanediisocyanate, polymeric methane diisosocyanate diisocyanate, and

polymeric isophorone diisocyanate.

12. A coating composition as in claim 10, wherein the (Original)

composition further comprises a catalyst for promoting reaction of the

polyurethane polyol precursor with the polyisocyanate.

13. A coating composition as in claim 10, wherein the (Original)

catalyst is selected from the group consisting of dibutyltin dilaurate, dibutyltin

diacetate, stannous octoate, butyl stannoic acid, and bismuth carboxylate.

14. (Original) A coating composition as in claim 10, wherein the

composition further comprises one or more additives selected from the group

consisting of antioxidants, colorants, UV absorbers, light stabilizers, and

surfactants.

15. A coating composition as in claim 10, wherein the (Original)

diisocyanate of the polyurethane polyol precursor is selected from the group

consisting of 2,2,4-trimethylhexamethylene diisocyanate, 1,6-hexamethylene

diisocyanate, 1,1'-methylene-bis-(4-isocyanatocyclohexane), 4,4'-methylene-bis-

(cyclohexyl diisocyanate), hydrogenated toluene diisocyanate, 4.4'-

isopropylidene-bis-(cyclohexyl isocyanate), 1,4-cyclohexyl diisocyanate, 4,4'-

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dicyclohexyldiisocyanate, and 3-isocyanato methyl-3,5,5-trimethylcyclohexyl

diisocyanate, and mixtures and combinations thereof.

16. (Original) A coating composition as in claim 10, wherein the

aliphatic diol is selected from the group consisting of 1,2-propanediol, ethyl-1,3-

hexanediol, 1,6-hexanediol, 2-methyl propanediol, and 1,5-pentanediol, and

mixtures and combinations thereof.

17. (Original) A coating composition as in claim 10, wherein the

polymeric diol is selected from the group consisting of polycarbonate diols and

polycaprolactone diols, and mixtures thereof.

18. (Original) A coating composition as in claim 10, wherein the

polyurethane polyol precursor comprises the reaction product of 2,2,4-

trimethylhexamethylene diisocyanate, 1,5-pentanediol, and polyoxohexylene

carbonate diol.

19. (Original) A coating composition as in claim 18, wherein the

polyurethane polyol precursor is further reacted with 2,4,6-trioxo-1,3,5-tris(6-

isocyanatohexyl)hexahydro-1,3,5-triazine in the presence of dibutyltin dilaurate

as a catalyst.

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- 20. (Currently Amended) A substrate having a coating on at least one surface thereof, said coating comprising the reaction product of:
 - a) a <u>hydroxy-terminated</u> polyurethane polyol precursor comprising the reaction product of:
 - i) a diisocyanate;
 - ii) an aliphatic diol having 1-6 carbon atoms; and
 - iii) a polymeric diol having at least one oxycarbonyl linkage and having from 5-20 carbon atoms; and
 - b) a polyisocyanate.
- 21. (Original) A substrate as in claim 20, wherein the substrate is glass.
- 22. (Original) A substrate as in claim 20, wherein the substrate comprises a polymeric material.
- 23. (Original) A substrate as in claim 22, wherein the substrate comprises a polycarbonate sheet.